

ABSTRACT

A combustion apparatus according to the present invention can positively control and generate burnt gas recirculation with a simple structure. The combustion apparatus 5 has a cylindrical container (12) having a combustion chamber, a close end (10), and an open end (26), an inflow passages (20) for supplying combustion air into the combustion chamber in the cylindrical container (12), and a fuel nozzle (18) for supplying fuel into the combustion chamber in the cylindrical container (12). A flow (28) of air is formed so as to have a velocity component in a direction of a central axis (J) from the open end 10 (26) to the close end (10) and a velocity component to swirl in a circumferential direction of said annular container (12). Fuel is injected so as to have a velocity component in the direction of the central axis (J) from the close end (10) to the open end (26) and a velocity component directed radially outward.